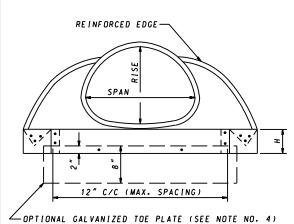
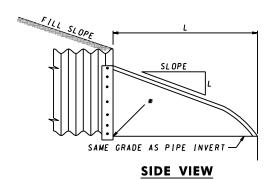


DIMENSIONS									
PIPE ARCH DIMENSIONS		GA.	А	В	н	L	w	APPROX. SLOPE	UNIT
SPAN	RISE								
17"	13"	16	7 "	9 "	6 "	19"	30"	21/2	1 PC.
21 "	15"	16	7 "	10"	6 "	23"	36 "	21/2	1 PC.
24"	18"	16	8 "	12"	6 "	28"	42"	21/2	1 PC.
28"	20"	16	9 "	14"	6 "	32"	48"	21/2	1 PC.
35 "	24"	14	10"	16"	6 "	39"	60"	21/2	1 PC.
42"	29"	14	12"	18"	8 "	46"	75 "	21/2	1 PC.
49"	33"	12	13"	21"	9 "	53"	85"	21/2	2 PC.
57"	38"	12	18"	26"	12"	63"	90″	21/2	2 OR 3 PC.
64"	43"	12	18"	30"	12"	70"	102"	21/4	2 OR 3 PC.
71 "	47"	12	18"	33"	12"	77"	114"	21/4	3 PC.
77"	5 <i>2</i> "	12	18"	36"	12"	77"	126"	2	3 PC.
83"	57"	12	18"	39"	12"	77"	138"	2	3 PC.





* INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON THE CONSTRUCTION PLANS.

END VIEW

NOTES

SPECIFICATION

- 1. ALL 3 PIECE UNITS 12 GA. SIDES AND 10 GA. CENTER PANELS (EXEPT 57"x 38" AND 64"x 43" PIPES, ALL PANELS SHALL BE 12 GA.). WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIPHERY. MULTIPLE PANEL UNITS TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY 38" O GALVANIZED RIVETS OR BOLTS.
- 2. FOR THE 77"x 52" AND 83"x 57" SIZES. REINFORCED EDGE TO BE SUPPLEMENTED BY 2"x 2"x 1/4" GALVANIZED ANGLES. THE ANGLES ARE TO BE ATTACHED BY 38" OF GALVANIZED NUTS AND BOLTS.
- 3. ANGLE REINFORCMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 77"x 52" AND 83"x 57" SIZES.
- 4. TOE PLATE SHALL BE USED WHEN SPECIFIED ON THE PLANS. COST OF TOE PLATE TO BE INCLUDED IN BID PRICE PER EACH OF METAL END SECTION.
- 5. TYPE 3 CONNECTION INCLUDES ONE FOOT OF PIPE LENGTH FOR 64"x 43" THRU 83"x 57" DIAMETER AS A CONNECTOR SECTION. THE CONNECTOR SECTION WILL BE ATTACHED TO THE END SECTION BY GALVANIZED RIVETS OR BOLTS. SEE STANDARD MD 370.11.
- 6. WHERE END SECTION IS TO BE APPLIED TO A STRUCTURAL PLATE PIPE ARCH. THE END SECTION SHALL BE ORDERED WITHOUT THE ONE FOOT OF PIPE LENGTH AS STIPULATED IN NOTE 5: INSTEAD, DRILL HOLES AND FIELD BOLT THE END SECTION DIRECTLY TO THE STRUCTURAL PLATE PIPE ARCH.

303 Kit G. M. Call **APPROVED** DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT APPROVAL • APPROVAL • FEDERAL REVISIONS HIGHWAY ADMINISTRATION APPROVAL 12-12-86 APPROVAL 8-28-86 10-1-01 REVISED

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CATEGORY CODE ITEMS

Maryland Department of Transportation STATE HIGHWAY ADMINISTRATION

STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD METAL END SECTION METAL PIPE ARCH

STANDARD NO. MD 371.01